

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

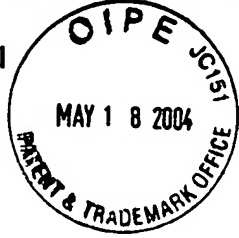
I.F.W

Applicants: Campbell et al

Filed: 12/11/2003

Serial No.: 10/733,171

For: DRILLING SYSTEMS



§
§ Art Unit: 3672
§
§ Examiner:
§
§ Atty File: HNVR 001
§
§ Conf. No. 5947

FIRST SUPPLEMENT TO INFORMATION DISCLOSURE

Mail Stop
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Dear Sir:

This is a First Supplement to information previously disclosed in this application. Enclosed are: a list of references; a Form PTO 1449 listing the references; and a copy of each reference. All applicable presumptions and reservations afforded by 37 CFR 1.56 et seq. regarding disclosure are incorporated herein by reference.

Respectfully submitted,

Date: 14 May 04

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CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with sufficient postage as first class U.S. mail with the United States Postal Service in an envelope addressed to: Mail Stop; Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450 on

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Guy McClung, Reg. No. 29,008

Facsimile of Form PTO 1449

(REV. 6-89)

U.S. Department of Commerce
Patent and Trademark Office

ATTORNEY'S DOCKET NUMBER

SERIAL NUMBER

HNVR 001

10/733,171

APPLICANT
Campbell et al

FILING DATE

GROUP ART UNIT

12/11/2003

3672

U.S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	RE 36,166	03/1999	Johns et al	175	61	
	6,659,202	12/2003	Runquist et al	175	61	
	6,386,301	05/2002	Rear	175	296	
	6,155,361	12/2000	Patterson	175	296	
	5,419,403	05/1995	Klemm	173	115	
	5,803,188	09/1998	McInnes	175	92	
	5,715,897	02/1998	Gustafson	175	296	
	5,662,180	09/1997	Coffman et al	175	57	
	5,497,839	03/1996	Moir	175	65	
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	5,396,965	03/1995	Hall et al	173	73	
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Examiner's Initial	Document Number	Country	Inventor-Class/Subclass	Date
	962,127	GB		1963
	810952	SU		1978
	0088705	EP		1982

Examiner

Date Considered

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Facsimile of Form PTO-1449 (REV. 8-89)		U.S. Department of Commerce Patent and Trademark Office		ATTORNEY'S DOCKET NUMBER HNVR 001	SERIAL NUMBER 10/733,171
Information Disclosure		Citation		APPLICANT Campbell et al	
(Use Several Sheets If		Necessary)		FILING DATE 12/11/2003	GROUP ART UNIT 3672

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Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	4,921,056	05/1990	Ennis	175	92	
	4,819,746	04/1989	Brown et al	175	296	
	4,790,390	12/1988	Sweeny	173	17	
	4,771,835	09/1988	Eaton	175	92	
	4,705,118	11/1987	Ennis	175	65	
	4,699,223	10/1987	Noren	175	40	
	4,694,911	09/1987	Kennedy	173	62	
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	3,193,024	07/1965	Cleary	173	17	
	2,389,711	11/1945	Armentrout			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pges, Etc.)

	2003/0111240 A1, 06/2003; US (S.N. 10/314,944; Karasawa et al; Dec. 10, 2002).

FOREIGN REFERENCES

Examiner's Initial	Document Number	Country	Inventor- Class/Subclass	Date

Examiner	Date Considered
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